GRAMBLING
STATE UNIVERSITY

ADDENDUM #2

CARVER HALL LAB RENOVATIONS
BID #50018-210030

May 24, 2021

The purpose of this Addendum is to include the following:

1. Paint ceiling and paint the piping in the ceiling of each lab respectively.
2. Hang overhead data/network wires to tie-in with new renovation of labs; professionally
3. Electrical as needed for Interactive Display Screen

Specifications for assets required:

1. Magnetic Glass Dry Erase Boards - White, 6 x 4'
2. Interactive Display Screen specifications (attached)
3. See LED Light Strip specifications (attached)

Cordially,

GRAMBLING
STATE UNIVERSITY
GRAMBLING, LOUISIANA

Halana A. Miles, MBA

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NOTE: PLEASE SIGN AND DATE AND RETURN WITH BID:

SIGN _____ DATE _____

SHARP

Be Original.

4K Ultra HD LCD Panel with Built-in Controller
Adds More Functionality and Versatility

AQUOS BOARD®

4K
3840 × 2160 Pixels

The PN-L851H/751H/651H AQUOS BOARD interactive display systems are made for show and tell in the digital age. Whatever screen size you choose—85", 75", or 65" Class (84 9/16, 74 1/2, or 64 1/2, respectively)—you get pristine 4K Ultra HD resolution. With a pre-installed controller and built-in whiteboard and wireless functionality, they are always ready for a quick meeting. The touchscreen supports up to 20 touch points at a time. You can use either a finger or the bundled touch pen, which gives a Pen-on-Paper® writing experience. Your group collaborations just got more seamless and intuitive.

Practical Office Technologies

Cutting-Edge Panel Technology

Supporting 4K Ultra HD (3,840 × 2,160) pixel resolution, the LCD panel renders texture and detail of images and small text. From architecture to engineering to graphic arts, these monitors excel in demanding professional settings. The panel boasts new optical technology that uses advanced opto-mechanics and signal processing. It differentiates finger and pen input, so you can write and draw on the screen with intuitive ease. An anti-glare film minimizes fingerprint soiling and reduces reflections. Even in a brightly lit room, onscreen content is easy to read.

Wireless Connectivity

Wireless LAN and Bluetooth® compatibility allow wire-free connection to multiple devices—including smartphones, tablets and computers*. No need for tangled wires or conversion adapters. Each device can project images wirelessly to the monitor. You can then capture the wirelessly projected screen and freely add annotations to it using a touch pen.

*Compatible with Windows® and Android™ operating systems
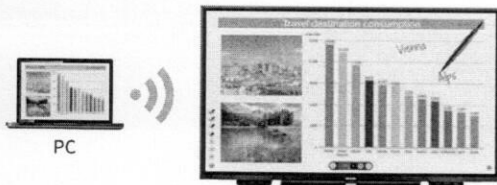
Built-in Controller with IWB Launcher

The PN-L851H/751H/651H interactive displays have a built-in controller with a new IWB Launcher that makes it easy to operate these all-in-one interactive whiteboards. You don't even need to hook up a dedicated PC. When you start up the main unit, the IWB Launcher is displayed automatically. Simply touch the icons on the screen for instant access to the features you want to use.

Direct Drawing

Switch to Direct Drawing to use the LCD monitor like a regular whiteboard. Even for first-time users, this simple write-and-erase function is a breeze to operate. You can also save screen captures as PDF files, either on internal storage or on an external storage device.
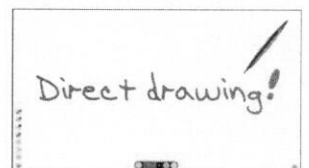
Simultaneous Writing

The LCD panel recognizes up to 20 touch points, so when inspiration strikes, multiple people* can use their finger or touch pen to add input. Meetings, lessons and brainstorming sessions will come alive.

* With Direct Drawing, only one person at a time can write.

Note: When you use Sharp applications on the built-in controller—including IWB Launcher, Direct Drawing, and Wireless Display—content is displayed at full-HD (1,920 x 1,080) pixel resolution.

Pen-on-Paper Experience

When the tip of the touch pen glides across the screen, it feels just like a pen on paper. No skips or delays. Instead, you get a smooth and responsive digital ink experience. Whether you choose a 2 mm or a 4 mm tip, the easy-grip bundled touch pen gives you a comfortable writing feel. And thanks to the pen's angular profile, it won't roll away when you put it on a table.

4 mm tip
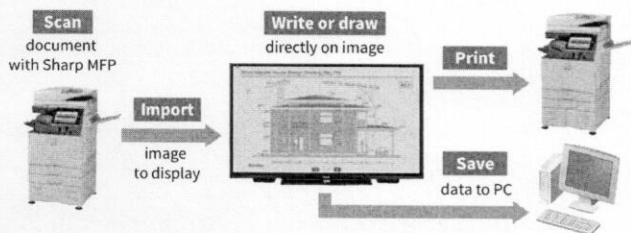2 mm tip
Touch pen (bundled)
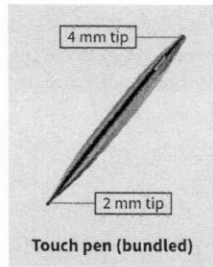
User-Friendly SHARP Pen Software

The easy-to-launch SHARP Pen Software interface has a menu with smartly arranged icons. These give you easy access to pen settings and other useful functions. Further handy functions* include access to cloud storage, an e-mail address book, sticky notes and bookmarks.

* Availability varies by country/region. For details, please consult your local authorized Sharp dealer or representative.

MFP Connectivity

Scanned documents can be imported directly to SHARP Pen Software from a compatible Sharp MFP. Onscreen image data—including written notes—can be sent to a PC for storage or to an MFP for printing.

Scan
document with Sharp MFP

Import
image to display

Write or draw
directly on image

Print

Save
data to PC

Versatile Installation

The PN-L851H/751H/651H interactive displays are designed to match a diverse range of installation needs. They can be installed in either a landscape or a portrait orientation. With a landscape installation, they can be tilted backwards at 45 degrees or between 0 and 20 degrees*.

* There are restrictions on the tiltable angles and other installation conditions. For details, please consult with your local authorised Sharp dealer or representative.
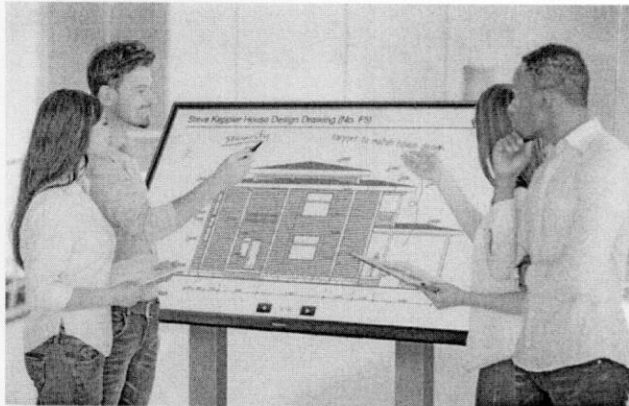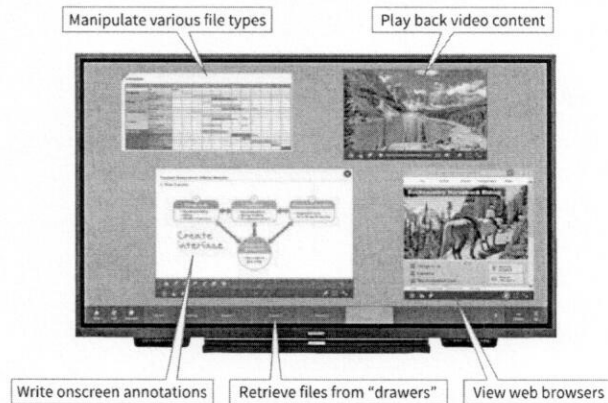
Quad-Screen Display

By connecting four PCs to the monitor, you can simultaneously display four screens at full-HD. You can easily switch between single-screen and quad-screen modes.

Note: Requires video cables.

SHARP Touch Viewer™ Software

This touch-operated onscreen user interface lets you easily manipulate different types of files, including Microsoft® Office applications, videos and web pages. Files are displayed onscreen as "sheets," which can be stored in onscreen virtual "drawers." This convenient software adds a fresh touch to business meetings, in-store installations and more.

Manipulate various file types
Play back video content
Write onscreen annotations
Retrieve files from "drawers"
View web browsers

SHARP Display Connect™

This software supports multifaceted wireless communication. Onscreen content, including handwritten notes, can be shared simultaneously with up to 50 devices. And devices connected to the monitor can exchange files between themselves.

Note: Available online or via the downloader on the bundled CD-ROM.

4K Interactive Signage

Because it handles the demands of 16/7 operation, the PN-L851H/751H/651H interactive displays bring reliable daily performance to retail, office and many other locations.

<System Requirements>
Connected Equipment

Hardware	PC/AT compatible machine with USB 2.0 port (CD-ROM drive required for installation)
OS	Windows® 8.1 (32-bit/64-bit), Windows® 10 (32-bit/64-bit) macOS v10.13, macOS v10.14, Google Chrome™ OS v59 or later

Supplied Software (Windows®)

CPU	Intel® Core™ i5-6360U or higher Intel® Core™ i7-6650U or higher recommended
Memory	4 GB or more
Hard disk	5 GB or more free space (additional space required for saving data)

To use the touch panel, connect the bundled USB cable to the computer. The touch panel operates with the standard driver of each OS. On the Mac, operation is only possible in single-touch mode.

Specifications

| Model Name		PN-L851H	PN-L751H	PN-L651H
Installation		Landscape / Portrait / Backward tilt (0 to 20, 45 degrees)[*1]		
LCD Panel		85" Class (84 9/16" diagonal) TFT LCD	75" Class (74 1/2" diagonal) TFT LCD	65" Class (64 1/2" diagonal) TFT LCD
	Max. Resolution	3,840 × 2,160 pixels		
	Max. Display Colors (approx.)	1.07 billion colors		
	Pixel Pitch (H x V)	0.488 × 0.488 mm	0.430 mm × 0.430 mm	0.372 × 0.372 mm
	Max. Brightness (average)[*2]	350 cd/m²		
	Contrast Ratio	5,000 : 1		
	Viewing Angle (H/V)	178°/178° (CR ≥ 10)		
	Active Screen Area (W x H) (approx.)	73 11/16" × 41 7/16"	64 15/16" × 36 9/16"	56 1/4" × 31 5/8"
	Response Time	9.5 ms (grey to grey, avg.)		
	Backlight	LED, direct lit		
Touchscreen	Touch Technology	InGlass™		
	PC Connection Port	USB (2.0 compliant) (Type B) × 2		
	Power Supply	Supplied from main unit		
	Multi Touch	20 points		
	Protection Glass	Thickness: Approx. 4 mm Shock resistance: 130 cm		
Computer Input	Video	Analog RGB (0.7 Vp-p) [75Ω], HDMI™, DisplayPort™		
	Synchronization	Horizontal/vertical separation (TTL: positive/negative)		
	Plug & Play	VESA DDC2B		
	Power Management	Supported		
Input Terminals[*3]		PC analog: Mini D-sub 15-pin × 1, HDMI (HDCP2.2 compatible, HDR10 supported) × 2, 3.5 mm-diameter mini stereo jack × 1, DisplayPort (HDCP compatible) × 1, RS-232 × 1		
Output Terminals[*3]		3.5 mm-diameter mini stereo jack × 1, DisplayPort (HDCP compatible) × 1[*4]		
Controller	CPU	Hexa Core [Arm® Cortex®-A72 processor (dual core) + Arm Cortex-A53 processor (quad core)]		
	Memory	4 GB		
	Storage	32 GB		
	External Interface	LAN port (10Base-T/100Base-TX/1000Base-T), microSD card slot (microSD/microSDHC/microSDXC[*5]) × 1, USB port (3.0-compliant) × 2, USB port (2.0-compliant) × 1		
	Wireless LAN	Compliant with IEEE802.11ac/n/a/g/b		
	Bluetooth	Compliant with version 4.1 (A2DP/AVRCP/GATT/GAP/HID/HOGP)		
USB Hub Function		USB port (2.0-compliant) × 2		
Expansion Slot		12 V, 2.5 A (power supplied when expanding the functions with an optional part)		
Speaker Output	Built-in	10 W + 10 W		
	External	10 W + 10 W (6 Ω)		
Mounting		4 points, 600 × 400 mm pitch, M6 screw		4 points, 400 × 400 mm pitch, M6 screw
Power Supply[*6]		100V – 240 V AC, 50/60 Hz		
Power Consumption		310 W	330 W	270 W
Environmental Conditions	Operating Temperature[*7][*9]	5°C to 35°C		
	Operating Humidity[*9]	20% to 80% RH (no condensation)		
Dimensions (W x D x H) (approx.) (display only)		76 13/16" × 3 7/8" × 45 1/4"	67 7/8" × 3 7/8" × 40 3/16"	59 1/8" × 3 7/8" × 35 3/16"
Weight (approx.)		170 lbs	135 lbs	106 lbs
Main Accessories		AC power cord, remote control unit, remote control unit battery (AAA size) × 2, set-up manual, speaker cover × 2, vertical sticker, blank sticker, cable clamp × 5, camera mount, USB cable, eraser, pen tray, SHARP Pen Software (CD-ROM), touch pen (PN-85TH1 × 2, PN-75TH1/65TH1 × 1), SHARP Display Connect license, Wireless LAN antenna × 2, USB flash drive/microSD card cover, USB flash drive/microSD card cover fixing screw		

[*1] There are restrictions on the tiltable angles and other installation conditions. For details, please consult with your local authorised Sharp dealer or representative. [*2] Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness. [*3] Use a commercially available connection cable for PC and other video connections. [*4] Use a commercially available DisplayPort-certified cable. Some video equipment may not be supported. [*5] exFAT is not supported. [*6] The AC power cord is an inlet type. The cable is bundled (3 pins) [*7] When the monitor is tilted more than 20 degrees upward from the perpendicular in relation to a level surface, the ambient temperature must be within the range of 5°C to 30°C. [*9] Check the requirements of the computer and other devices to be connected, and make sure that all requirements are satisfied.
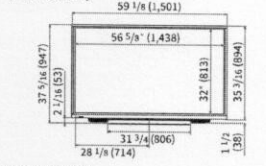
Dimensions

(PN-L851H)
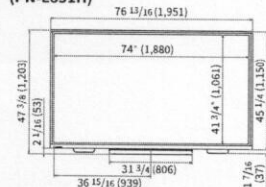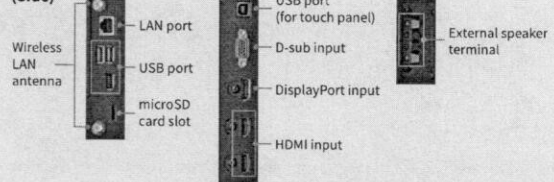

(PN-L751H)
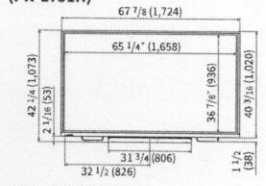
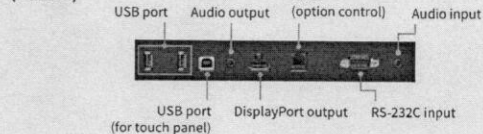**(PN-L651H)**

Units: inch (mm)
* Screen dimensions   *To use the mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

Input/Output Terminals

(Side)

Wireless LAN antenna, LAN port, USB port, microSD card slot, USB port (for touch panel), D-sub input, DisplayPort input, HDMI input, External speaker terminal

(Bottom)

USB port, Audio output, RJ11 (option control), Audio input, USB port (for touch panel), DisplayPort output, RS-232C input

HDMI™   D™   🐸 FlatFrog

LITHONIA LIGHTING®

LED Striplight

Z SERIES

ZL1N

24", 48" and 96" Lengths

FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide nominal 80 CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

L/Lens

Lensed

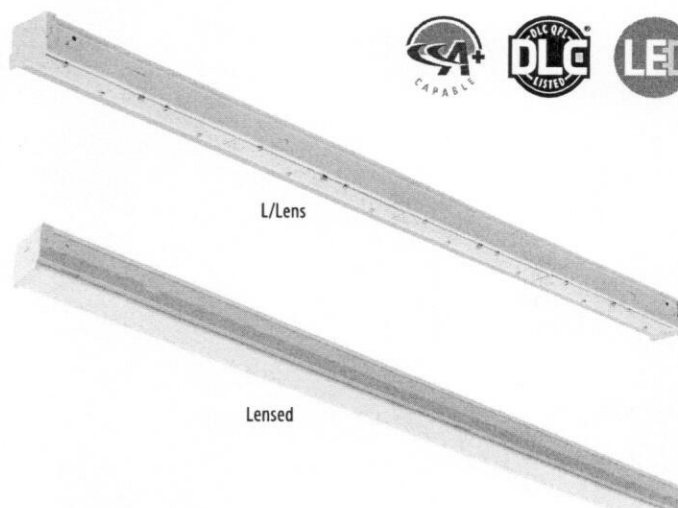## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

ZL1N LED Striplight

A+ Capable options indicated by this color background.

Example: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH

Series		Length		Reflectors[2]		Nominal lumens[3]		Diffuser		Voltage	
ZL1N	LED striplight	L24	24"[1]	(blank)	Less reflector	1500LM	1,500 lumens	FST	Snap on frosted, diffuse	MVOLT	120-277V
				SMR	Symmetric	2500LM	2,500 lumens	L/LENS	No diffuser	120	120V
						3500LM	3,500 lumens	SBL FST	Straight blade louver with snap on frosted, diffuse	208	208V
		L46	46"	(blank)	Less reflector	3000LM	3,000 lumens			240	240V
		L48	48"	ASR	Asymmetric (L48 only)	5000LM	5,000 lumens			277	277V
				SMR	Symmetric	7000LM	7,000 lumens			347	347V[4]
TZL1N	LED striplight	L92	92"	(blank)	Less reflector	6000LM	6,000 lumens			480	480V[4]
		L96	96"	SMR	Symmetric	10000LM	10,000 lumens				
						14000LM	14,000 lumens				

Color temperature		Color rendering index		Options				Paint finish	
30K	3000 K	80CRI	80 CRI	PLR__	Plug-in wiring[5,6]	**Individual Controls[5]**		WH	White
35K	3500 K	90CRI	90 CRI	PLR1LVG	Plug-in wiring-low voltage[5,6]	LBOZU	360° low mount motion sensor, pre-wired[10]	GALV	Galvanized
40K	4000 K			E7W	Emergency battery pack, 7W CA Title 20 Noncompliant[7]	LBHOSZU	360° low mount motion sensor with dimming, pre-wired[10]	MB	Matte black
50K	5000 K			2E7W	Two Emergency battery packs, 7W CA Title 20 Noncompliant[7,8]	LBPZU	360° low mount motion sensor with photocell, pre-wired[10]	SKGY	Smoke gray
				E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7]	LBMOSZU	360° low mount motion sensor, dimming & switching photocell, pre-wired[10]		
				2E10WLCP	Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	**Cord sets:[11]**			
						CS1W	Straight plug, 120V		
				E15WLCP	Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	CS3W	Twist-lock, 120V		
						CS7W	Straight plug, 277V		
				OUTEND	Cord set to exit endplate of fixture	CS11W	Twist-lock, 277V		
				Wireless Controls[5]		CS25W	Twist-lock, 347V		
				NLTAIR2 RLSXR10	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	CS97W	Twist-lock, 480V		
				NLTAIR2 RLSXR10EM	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation[9]	CS93W	600V SEOOW white cord, no plug (no voltage required)		

Accessories: *Order as separate catalog number.*

|			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module		
LSXR	Sensor Switch® LSXR occupancy sensor[4]	ZLR L48 SYM WH	48" symmetric reflector, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
WGZ24	24" wireguard, white[12]	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ48	48" wireguard, white[12,13]	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	ZLR L96 SYM WH	96" symmetric reflector, white finish
		UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

1. Not available with 347V, 480V or Batteries
2. Optional. Reflectors ship separately.
3. See Operational Data on page 2 for actual lumens.
4. Utilizes step down transformer.
5. See ordering information on pages 4 and 5 and rLSXR specification sheet for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
6. Not available with cord sets.
7. MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
8. Only available with 10,000LM and 14,000LM packages.
9. MVOLT only.
10. Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient Sensors come prewired, they must be snapped into place at time of installation.
11. Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
12. Not compatible with reflector
13. Order 2 for tandem double length fixtures (TZL1N).

ZL1N LED Striplight

OPERATIONAL DATA

	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI		
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID
Unlensed	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	9404	7667	9614	7937	9764	8087	10123	8266	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	13485	10994	13786	11381	14001	11596	14516	11853	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID

DIMENSIONS

All dimensions are shown in inches (centimeters) unless otherwise noted.
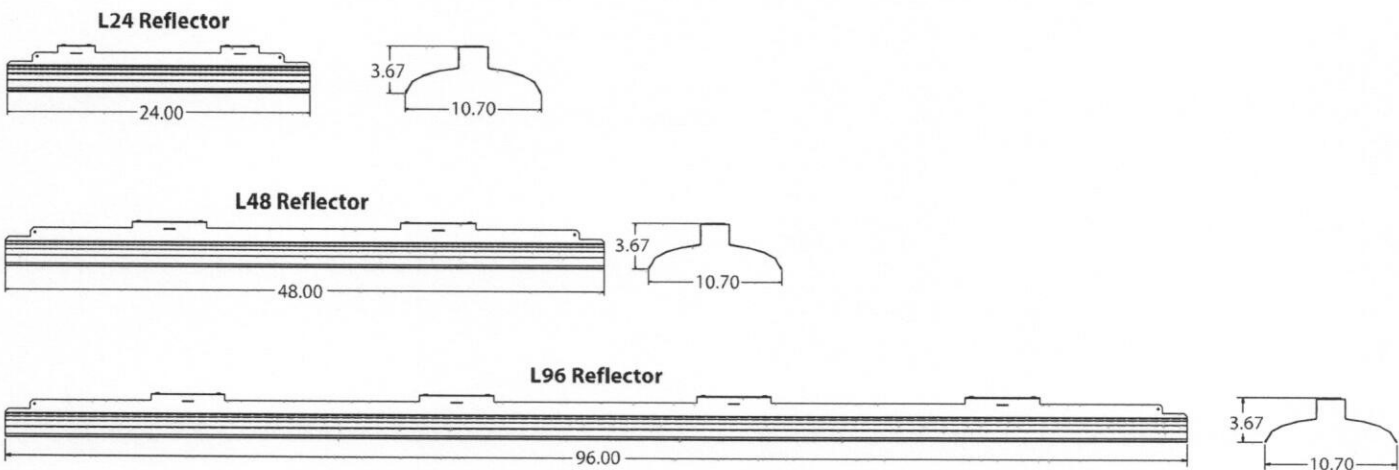
Specifications subject to change without notice.

PALLET DIMENSIONS

Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	7 lbs.	408	46" X 51" X 32 11/16"
L46	11 lbs.	176	46" X 51" X 32 1/16"
L48	12 lbs.	176	46" X 51" X 31 3/8"
L92	22 lbs.	176	46" X 98 1/2" X 31 1/16"
L96	24 lbs.	176	46" X 98 1/2" X 31 1/16"

Mounting Hole Location - All Lengths

Knockout hole is .86in in diameter.
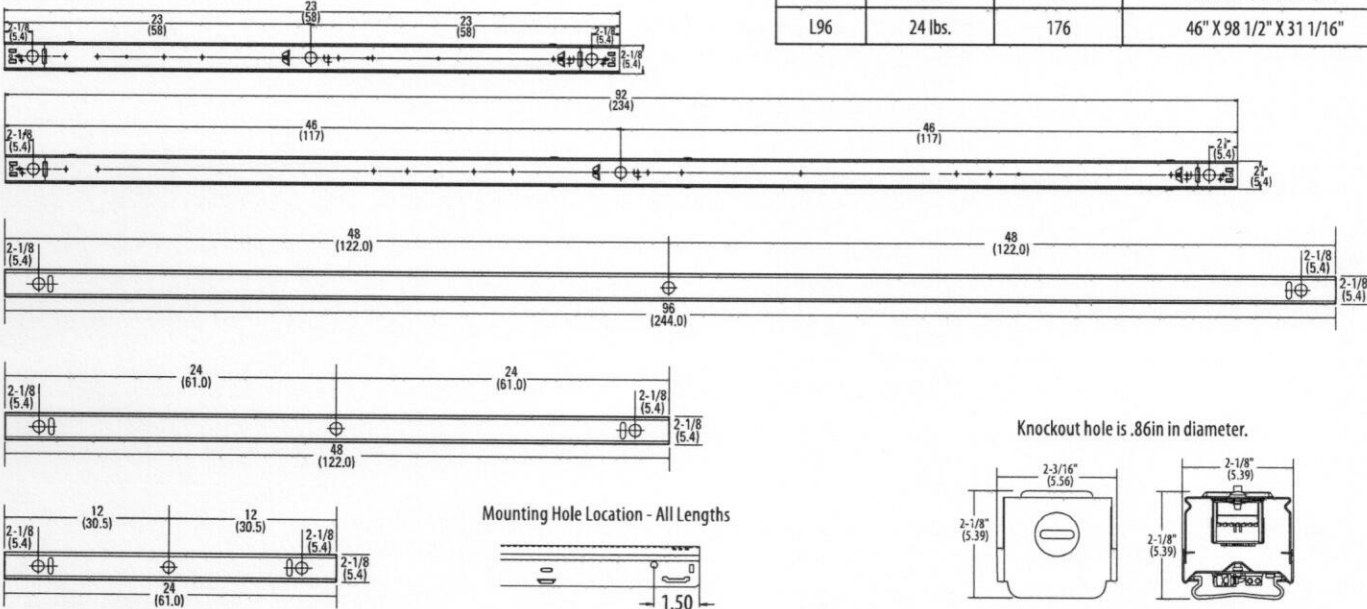
PHOTOMETRICS

Please see www.lithonia.com

REFLECTORS (Optional)

L24 Reflector

24.00

3.67
10.70

L48 Reflector

48.00

3.67
10.70

L96 Reflector

96.00

3.67
10.70

PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.

PLR
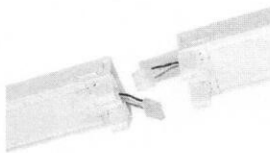
Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires		Branch circuits				Dimming		Ground	
PLR	(blank)	Not required for 22	Circuits to which ballast is connected		Emergency circuit connected		LV	Low-voltage dimming	G	Ground, required
PLR22	1	Black	(blank)	Not required for 22 or PLR1	(blank)	No emergency circuit				
	2	Black and red	A	Black wire	ELA	Emergency circuit wired to black wire				
			B	Red wire	ELB	Emergency circuit wired to red wire				

Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits, 2-circuit (PLR 22)
- Multiple circuit with night-lights located along row as desired

LSXR – Fixture Mount Occupancy Sensor (see

www.AcuityControls.com for additional information)

- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCH0SZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAH0SZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION

Example: LAH0SZU

Series	Lens option	Dimming/Photocell	Max. dim level	Min. dim level	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	0 None[1] H High/low occupancy operation P Switching photocell (on/off)[1] M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dim level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature[2]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1. Max and min dim levels not applicable with this option.
2. Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell (on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature[1]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1. Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

Example: LENS 50 J100

Replacement lenses: *Order as separate catalog number.*

Series	Lens type	Package quantity
LENS	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	[blank] Single Lens J10 10-pack J100 100-pack

OPTIONS AND ACCESSORIES

The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.
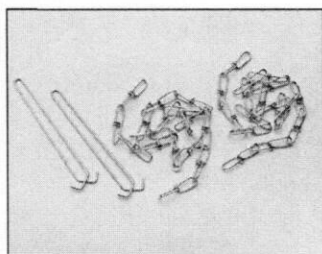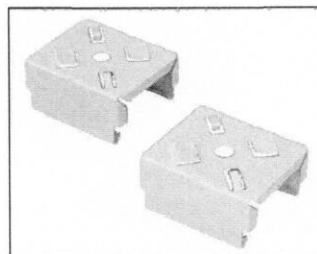
HANGER CHAIN

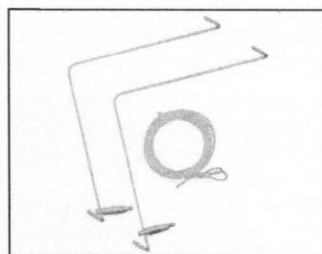36" chain with Y hanger.

Order as:

HC36

Z SPRING HANGER

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.
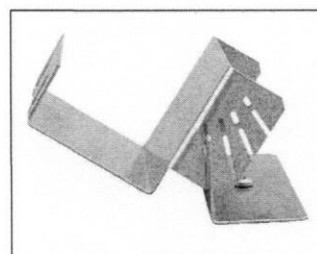
Order as:

ZSPRG

ZACVH HANGER

10' Aircraft cable with Y hanger.

Order as:

ZACVH

ANGLE MOUNTING BRACKET
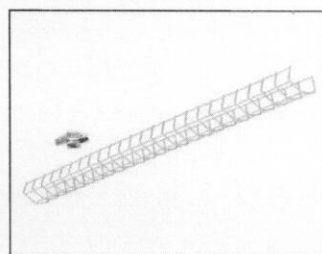
Luma-tilt™ angle bracket ships as a pair

Order as:

ZLANGBKT

WIRE GUARD

Order as:

WGZ24

WGZ48